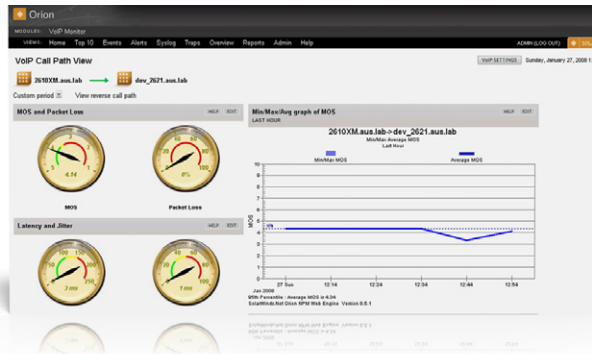


What? Did you say something? Don't miss a word with Orion VoIP Monitor.

*"We look forward to rolling out the new Orion VoIP Module and expect it to have the **same immediate value** we experienced with our other SolarWinds products."*

*- Don Barry,
Network Engineering Manager,
IFCO Systems N.A., Inc.*



Need to extend the capabilities of Orion Network Performance Monitor (NPM) to VoIP traffic? SolarWinds' Orion VoIP Monitor Module enables you to measure and track the performance of voice quality across Wide Area Networks (WANs), where it matters most. Leveraging Cisco® IP SLAs, VoIP Monitor collects and analyzes VoIP performance statistics including MOS, jitter, network latency,

packet loss, and other important quality of service (QoS) metrics. These features enable you to proactively find the root cause of VoIP performance degradation and measure expected voice quality in advance of a VoIP deployment.

Orion VoIP Monitor also simplifies the configuration of IP SLA on Cisco routers – in fact, it can automatically configure the routers to collect VoIP QoS statistics without you ever having to lift a finger. VoIP Monitor delivers these powerful capabilities in an affordable, easy-to-deploy and user-friendly interface that offers the familiarity and scalability of Orion.

VoIP Challenges

Do you know what's going on with your VoIP traffic? Is it performing up to par across your wide area links? The WAN is by far the most likely place for a VoIP quality issue to emerge if it is a network problem. When VoIP quality over the WAN is unreliable, it can be a frantic search to find the tools necessary to troubleshoot voice QoS issues. Don't worry – VoIP Monitor can help.

Solution

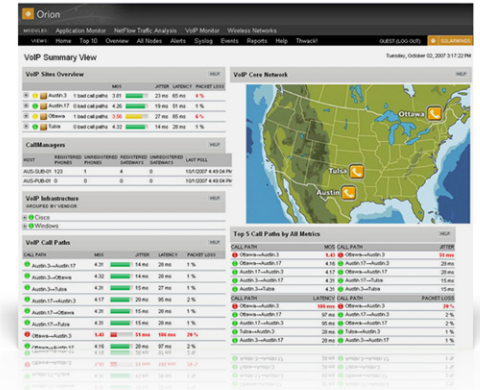
VoIP Monitor allows you to proactively analyze VoIP quality across WAN links, as well as monitor the underlying systems and protocols that the VoIP environment relies upon, providing complete and seamless integration with Orion NPM. VoIP Monitor's simulation-based approach with IP SLA alerts you to problems and enables you to fix them before an end user ever has to say "Can you hear me now?"

Other solutions attempt to measure voice quality in a "reactive" fashion by tracking end user phone calls from a span port on a switch. Not only is this a privacy concern for many organizations, but a local switch port is a poor location to gather network-wide VoIP quality metrics. In contrast, VoIP Monitor's approach eliminates security concerns and offers a more effective and scalable solution for gathering data indicative of VoIP performance.



VoIP Quality of Service Measurement

Orion VoIP Monitor uses Cisco's IP SLAs to collect network performance statistics, without intruding on voice calls. These statistics include MOS, jitter, network latency, packet loss and other important QoS metrics that provide detailed visibility into VoIP performance. Even better, the Orion NPM web console offers a unified view of overall network health as it relates to VoIP performance, as well as a one-stop shop for alerts and reporting.



Alerts, Graphs and Reporting

Alerts can be created for any IP SLA-based data to notify you of performance degradation on the VoIP network. This ensures that you will know if and when thresholds are violated, indicating that parameters are outside of what is considered "good" for a given WAN link, and can immediately troubleshoot the issue. VoIP Monitor also enables you to analyze historical trends with graphs and reports. These capabilities allow you to perform effective capacity planning for existing VoIP deployments and to measure expected voice quality in advance of a new VoIP deployment. Out-of-the-box VoIP QoS reports include statistics such as MOS, packet loss, jitter, latency and VoIP infrastructure availability over the last X days, across all call paths.

VoIP Infrastructure Monitoring

With VoIP Monitor, you can designate any network device (e.g., routers, switches, servers) as part of the "VoIP infrastructure" and create VoIP-specific alerts based on those devices. Devices are displayed in VoIP views, enabling you to perform complete fault and performance monitoring of the VoIP infrastructure.

Cisco CallManager® Monitoring

VoIP Monitor provides out-of-the-box monitoring of Cisco CallManager, delivering detailed visibility into performance metrics that are indicative of the health of the VoIP environment. Monitored elements include registered/unregistered phones and gateways, rejected phones and gateways, the operational status of each connected phone, and server metrics, such as CPU utilization, memory, packet loss and average response time. CallManager alerts are also included with VoIP Monitor and several advanced alerts are available by default, such as alerting when unregistered phones are above five percent.

Auto-Configuration of IP SLA

VoIP Monitor simplifies the configuration of IP SLA on Cisco routers by automatically configuring the routers to collect VoIP QoS statistics. This makes VoIP Monitor quick and easy to deploy, saving you valuable time and ensuring that you reap immediate benefits.

Enterprise Scalability

VoIP Monitor easily scales to manage VoIP deployments ranging from a few devices to thousands of locations. To manage large, enterprise networks, VoIP Monitor can be extended by deploying the application on multiple Orion NPM Polling Engines.

System Requirements

Intel® Pentium® 4 - 1GHz, 1GB RAM, 2GB hard drive space available; Microsoft® Windows Server™ 2003 (32-bit or 64-bit) including R2, with IIS installed; Microsoft® SQL Server™ 2000 SP4 Standard/Enterprise or SQL Server 2005 Express/Standard/Enterprise

Orion NPM Modules:

- VoIP Monitor
- NetFlow Traffic Analyzer
- Wireless Network Monitor
- Application Performance Monitor
- Hot Standby Engine

Orion NPM modules extend the capabilities of Orion NPM to network traffic including VoIP, servers, wireless devices and applications.